



## CASE HISTORY

<b>CLIENT:</b>	Municipal
<b>LOCATION:</b>	Fraser, CO
<b>APPLICATION:</b>	Heat Retention
<b>PRODUCT:</b>	LemTec™ Modular Insulated Tank Cover System

### BACKGROUND

A mountain community, whose major economic revenue source is tourism, was concerned with their wastewater treatment plants ability to meet increasing flows and lowered limits. The length and severity of their winter season placed a biological challenge on the operation of the upgraded mechanical treatment plant. In fact, as you enter the city, they proudly display a sign that proclaims their town is the "Ice Box of the Nation". Obviously with a reputation like that, heat retention was a major consideration for the consulting engineering firm. The engineers were familiar with Lemna's capabilities and cover options because they had utilized Lemna covers on several other projects.

### PROJECT INFORMATION

The project required covering four aeration basins. The covers had to be designed to accommodate water level fluctuations of one foot. The cantilevered walkway design of the tanks required Lemna to fabricate a customized anchoring design that would enable the operator to remove individual sections of the cover for routine mechanical maintenance. Through a joint effort with the engineering firm, a design was developed that met the needs of both the engineer and operator.

## **LEMTEC™ SOLUTION**

Lemna designed an R-15 cover that was 100% pre-fabricated in the plant, thus requiring minimal assembly on site. The cover was manually lifted over the edge of the tank and floated into position. At that time, the cover was anchored to the side-wall using common concrete expansion anchors. Each cover was installed in less than a half a day, requiring only basic hand tools and general labor.

## **RESULTS**

The operator is extremely satisfied with the fit, heat retention and the ability of the cover to support the snow that piles up on top of the cover.

For more information, please contact:

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